

Purolite® PFAS System Design and Modeling

What Can You Do When You Are Faced With These Emerging Contaminants?

Municipalities across the nation are finding that levels of poly- and perfluoroalkyl substances (PFAS) are exceeding the health guidelines made by the U.S. Environmental Protection Agency and changing state guidelines.

Thanks to Purolite's ion exchange technology, these dangerous compounds can be reduced to non-detect levels. Purofine® PFA694E makes use of ion exchange and adsorption technologies to reduce the capital and operational costs of treatment compared to standard carbon-based treatment methods.

To provide safe, clean water for your community, consider Purofine PFA694E. We can tailor a system to your municipal or state water quality goals. To get the process started, we only need some basic information about your water quality and existing system.

Information Needed for Effective PFAS System Design

Inlet PFAS Information

- Inlet PFAS levels by species (ppt)
- Inlet TOC levels (ppm)
- Target reduction levels (PFAS)
- VOC levels (ppb)
 - Is water pretreated by an air stripper?
 - If yes, what is the target reduction level of VOC? (ppb)
- Flowrate (gpm or m³/h)
- Volume of water treated daily (gpd or m³/d)

Background Water Chemistry (ppm or mg/L)

- Sulfate
- Nitrate (ppm) as N or NO₃ (please specify)
- Bicarbonate alkalinity
- Chloride
- Uranium
- Perchlorate
- Chromate
- Arsenic

Purolite Deliverables

Technical Expertise

- Access to an ion exchange expert
- Treatment option evaluation
- Lead-Lag vessel design
- Estimated throughput (gallons/BVs)
- Estimated CAPEX
- Estimated operating costs

Effective Product

- Single use resin option
- NSF/ANSI-61 certified
- Appropriate for municipal, point of use (POU) and point of entry (POE) systems
- Very high operating capacity
- Excellent kinetics

Learn more at:
www.purolite.com



Algeria
Australia
Bahrain
Brazil
Canada
China
Czech Republic
France
Germany

India
Indonesia
Israel
Italy
Japan
Jordan
Kazakhstan
Korea
Malaysia

Mexico
Morocco
New Zealand
Poland
Romania
Russia
Singapore
Slovak Republic
South Africa

Spain
Taiwan
Tunisia
Türkiye
UK
Ukraine
USA
Uzbekistan



Americas

Purolite
2201 Renaissance Blvd.
King of Prussia, PA 19406
T +1 800 343 1500
T +1 610 668 9090
F +1 800 260 1065
americas@purolite.com

EMEA

Purolite Ltd.
Unit D
Llantrisant Business Park
Llantrisant, Wales, UK
CF72 8LF
T +44 1443 229334
F +44 1443 227073
emea@purolite.com

FSU

Purolite Ltd.
Office 6-1
36 Lyusinovskaya Str.
Moscow, Russia
115093
T +7 495 363 5056
F +7 495 564 8121
fsu@purolite.com

Asia Pacific

Purolite China Co. Ltd.
Room 707, C Section
Huanglong Century Plaza
No.3 Hangda Road
Hangzhou, Zhejiang, China 310007
T +86 571 876 31382
F +86 571 876 31385
asiapacific@purolite.com

Purolite, the leading manufacturer of quality ion exchange, catalyst, adsorbent and specialty high-performance resins, is the only company that focuses 100% of its resources on the development and production of resin technology.

We're ready to solve your process challenges. For further information on Purolite products and services, visit www.purolite.com or contact your nearest Technical Sales Office.



www.purolite.com

©2022 Purolite
All rights reserved.
P-000173-1022-R5-ENG-PCO

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Purolite expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.